



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Thomas J. QUIGLEY et al.

Appl. No. 09/780,179

Filed: February 9, 2001

For: **Robust Techniques For Optimal  
Upstream Communication Between Cable  
Modem Subscribers And A Headend**

Confirmation No. 9211

Art Unit: 2663

Examiner: Douglas W. Olms

Atty. Docket: 1875.132000I

Revocation of Prior Power of Attorney  
and Appointment of New Attorneys of Record

**RECEIVED**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

NOV 06 2003

Technology Center 2600

Sir:

The undersigned, having express authority to represent Broadcom Corporation, the assignee of the entire right, title, and interest in the above-captioned application, by Assignment filed at the U.S. Patent and Trademark Office and recorded at Reel 011049, Frame 0482, hereby revokes all powers of attorney heretofore given in the above-captioned application and appoints as his attorneys Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; Samuel L. Fox, Esq., Registration No. 30,353; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michele A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Lawrence B. Bugaisky, Esq., Registration No. 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Reg. No. 37,575; Judith U. Kim, Esq. Reg. No. 40,679; Timothy J. Shea, Jr., Esq., Reg. No. 41,306; and Patrick E. Garrett, Esq., Reg. No. 39,987; with full power of substitution, association, and revocation, to prosecute said application and to transact all business in the United States Patent and Trademark Office connected therewith.

Thomas J. QUIGLEY et al.  
Appl. No. 09/780,179


The undersigned hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send all correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934.

Direct telephone calls to (202) 371-2600.

On behalf of Broadcom Corporation:

FOR: Broadcom Corporation  
SIGNATURE:   
BY: Dee Henderson  
TITLE: Manager, Intellectual Property Portfolio  
DATE: October 9, 2003



**STATEMENT UNDER 37 C.F.R. § 3.73(b)**

Applicant/Patent Owner: Thomas J. QUIGLEY et al.

Application No./Patent No.: 09/780,179 Filed/Issue Date: February 9, 2001

Entitled: Robust Techniques For Optimal Upstream Communication Between Cable Modem Subscribers And A Headend

Broadcom Corporation, a Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest, or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_% in the patent application/patent identified above by virtue of either:
  - A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 011049, Frame 0482, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

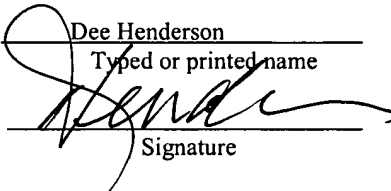
☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

**[NOTE:]** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

October 9, 2003  
Date  
(949) 926-5958  
Telephone number

Dee Henderson  
Typed or printed name  
  
Signature  
Manager, Intellectual Property Portfolio  
Title

**Docket No. 36636/LTR/B600**

**Joint**

**ASSIGNMENT**

**WHEREAS, WE, Thomas J. Quigley; Jonathan S. Min; Lisa V. Denney; Henry Samuelli; Sean F. Nazareth; Feng Chen; Fang Lu; and Christopher R. Jones**, residing at Lawrenceville, Georgia; Buena Park, California; Suwanee, Georgia; Corona Del Mar, California; Anaheim Hills, California; Irvine, California; Irvine, California; and Newport Beach, California, respectively, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled **CABLE MODEM APPARATUS AND METHOD**, filed May 19, 2000, Application No. 09/574,558.

**AND WHEREAS BROADCOM CORPORATION**, a California corporation, having a place of business at 16215 Alton Parkway, Irvine, California 92618 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

**NOW, THEREFORE**, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to said improvements, and said application and all divisions and continuations thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all continuations, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said improvements in any foreign countries; and we hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

**AND WE HEREBY** covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

**AND WE HEREBY** further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said improvements in all countries.

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

ASSIGNMENT  
Docket No. 36636/LTR/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 12 day of July, 20 00.

  
\_\_\_\_\_  
Thomas J. Quigley

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Jonathan S. Min

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Lisa V. Denney

\*\*\*\*\*

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

ASSIGNMENT  
Docket No. 36636/LTR/B600

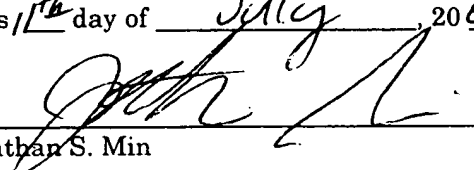
Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Thomas J. Quigley

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this 1<sup>st</sup> day of July, 20 00.

  
Jonathan S. Min

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Lisa V. Denney

\*\*\*\*\*

ASSIGNMENT  
Docket No. 36636/LTR/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Thomas J. Quigley

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Jonathan S. Min

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this 6<sup>th</sup> day of July, 20 00.

Lisa V. Denney  
Lisa V. Denney

\*\*\*\*\*

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

ASSIGNMENT  
Docket No. 36636/LTR/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 26 day of July, 20 00.

  
Henry Samueli

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Sean F. Nazareth

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Feng Chen

\*\*\*\*\*



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TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

ASSIGNMENT  
Docket No. 36636/LTR/B600


Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Henry Samuelli

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this 1st day of August, 2000.

  
\_\_\_\_\_  
Sean F. Nazareth

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Feng Chen

\*\*\*\*\*

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

ASSIGNMENT  
Docket No. 36636/LTR/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Henry Samueli

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Sean F. Nazareth

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this 30 day of June, 20 00.

Chen Feng  
Feng Chen

\*\*\*\*\*

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

ASSIGNMENT  
Docket No. 36636/LTR/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 1st day of August, 2000.

Fang Lu  
Fang Lu

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Christopher R. Jones

LTR/bje  
BJE PAS259082.1-\*6/28/00 4:13 PM

DO NOT FORWARD  
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NOT FOR RECORDATION

ASSIGNMENT  
Docket No. 36636/LTR/B600


Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Fang Lu

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this 6 day of July, 20 00.

  
\_\_\_\_\_  
Christopher R. Jones

LTR/bje  
BJE PAS259082.1-6/28/00 4:13 PM